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FIG. 2

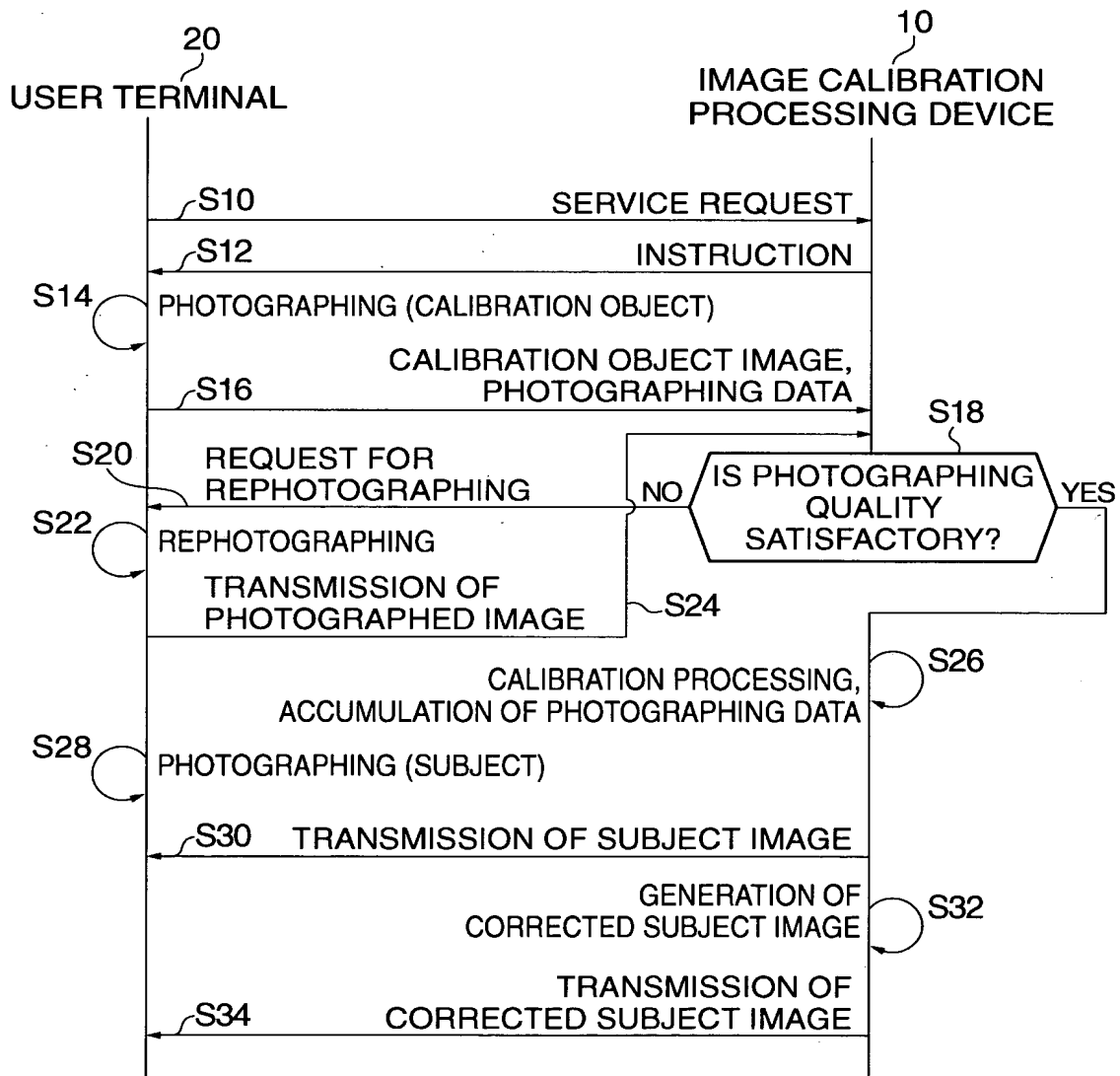


FIG. 3

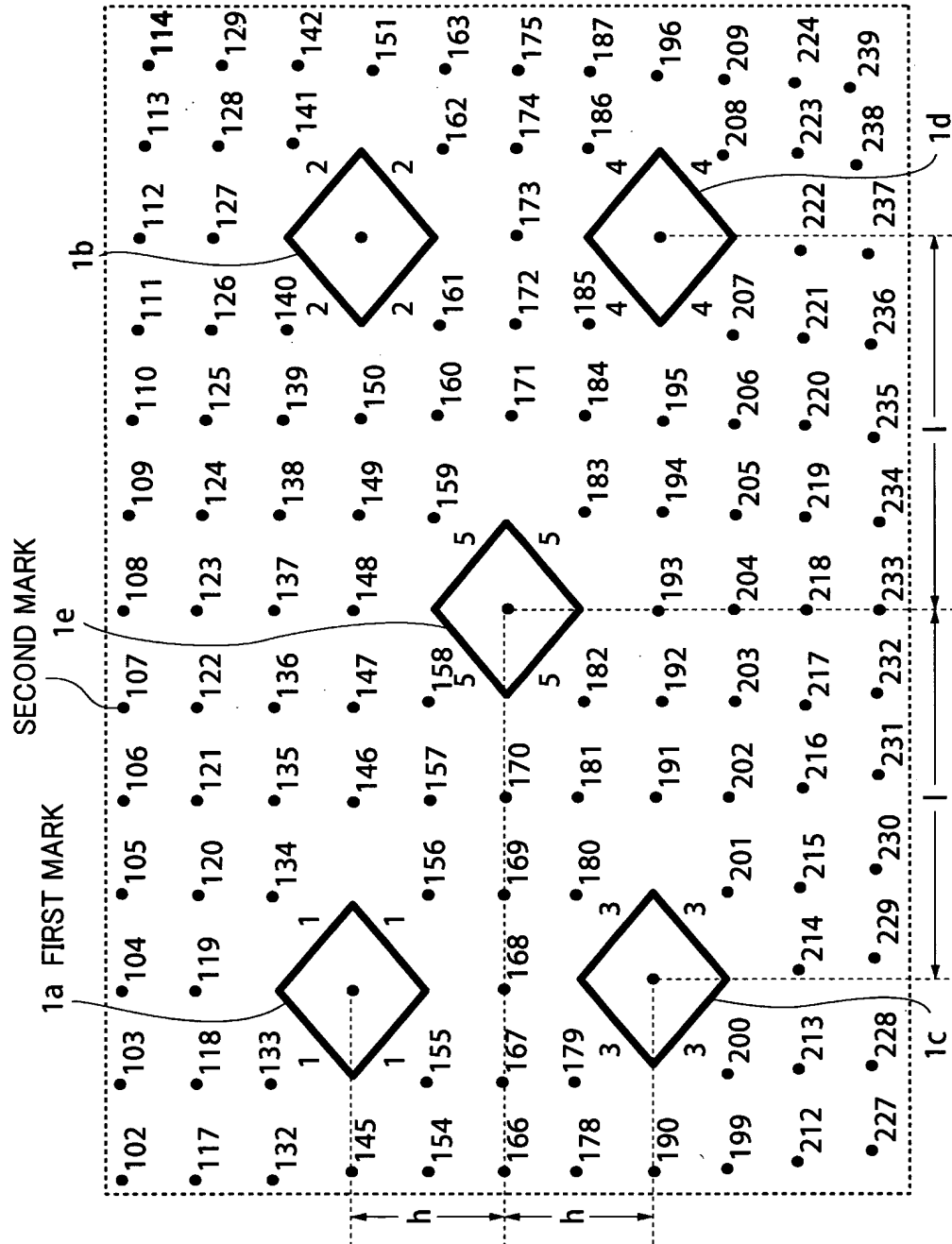


FIG.4

cmr file

Distortion display magnification

142 BEFORE CORRECTION

144 AFTER CORRECTION

146 IDEAL

☒ Tetragonal grid (white lines)

☒ Distortion before correction (red lines)

☒ Distortion after correction (black lines)

Maximum value of the distortion before correction.

Maximum value of the distortion after correction.

417.33 [um]

35.367 [Pixels]

26.141 [um]

2.2153 [Pixels]

Display analysis result

Display another cmr file

OK

Camera parameters

Focal length

18.476568 [mm]

Principle point position

11.901347 [mm]

Principle point position Y

7.941338 [mm]

Correction model

☒ Include distortion aberration in the radial direction only.

☐ Include distortion aberration in the radial direction and tangential directions.

Distortion parameters

Parameter 1

0.0002367945

Parameter 2

-5.173634e-007

Parameter 3

-3.367616e-010

Parameter 4

2.997973e-012

Image resolution Xr

11.8 [um]

Image resolution Yr

11.8 [um]

FIG. 5 (C)

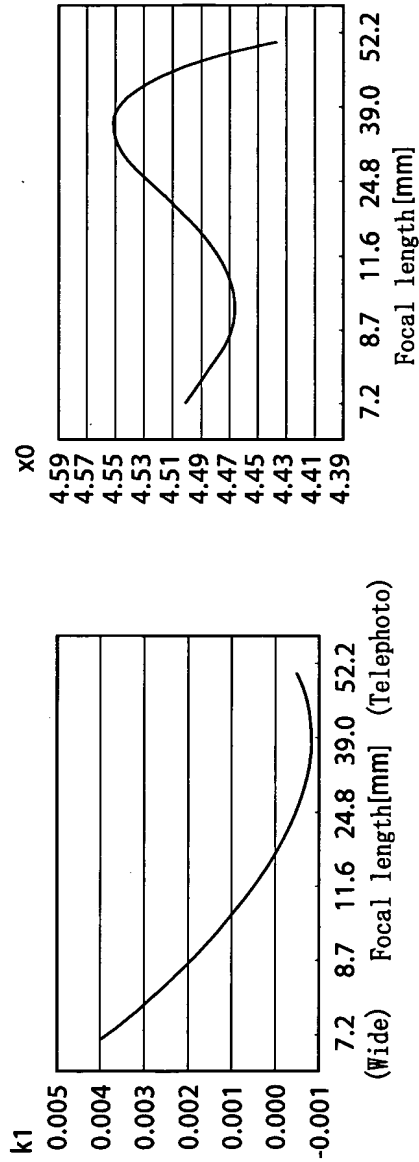


FIG. 5 (A)

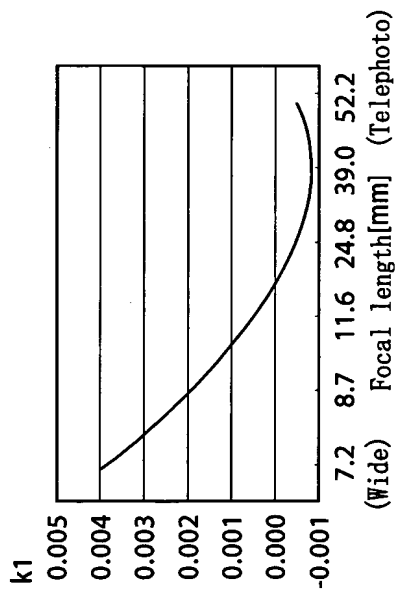


FIG. 5 (D)

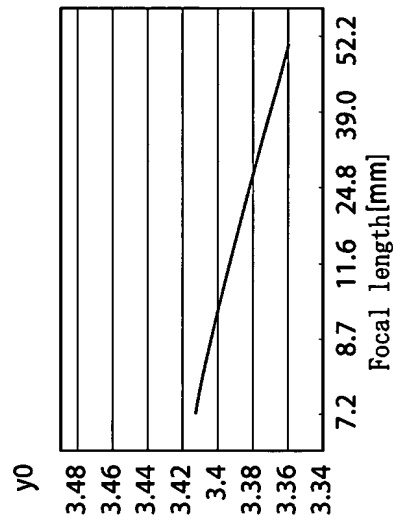
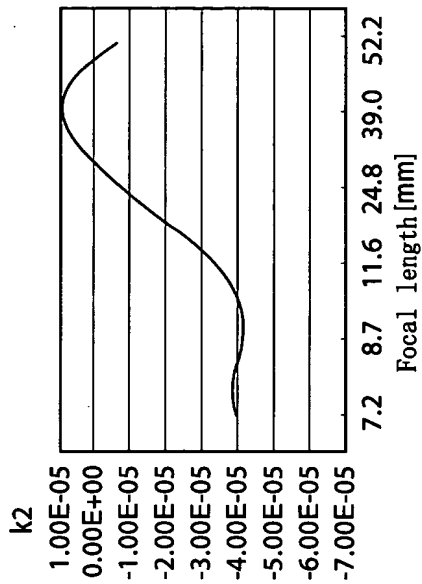


FIG. 5 (B)



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FIG. 6

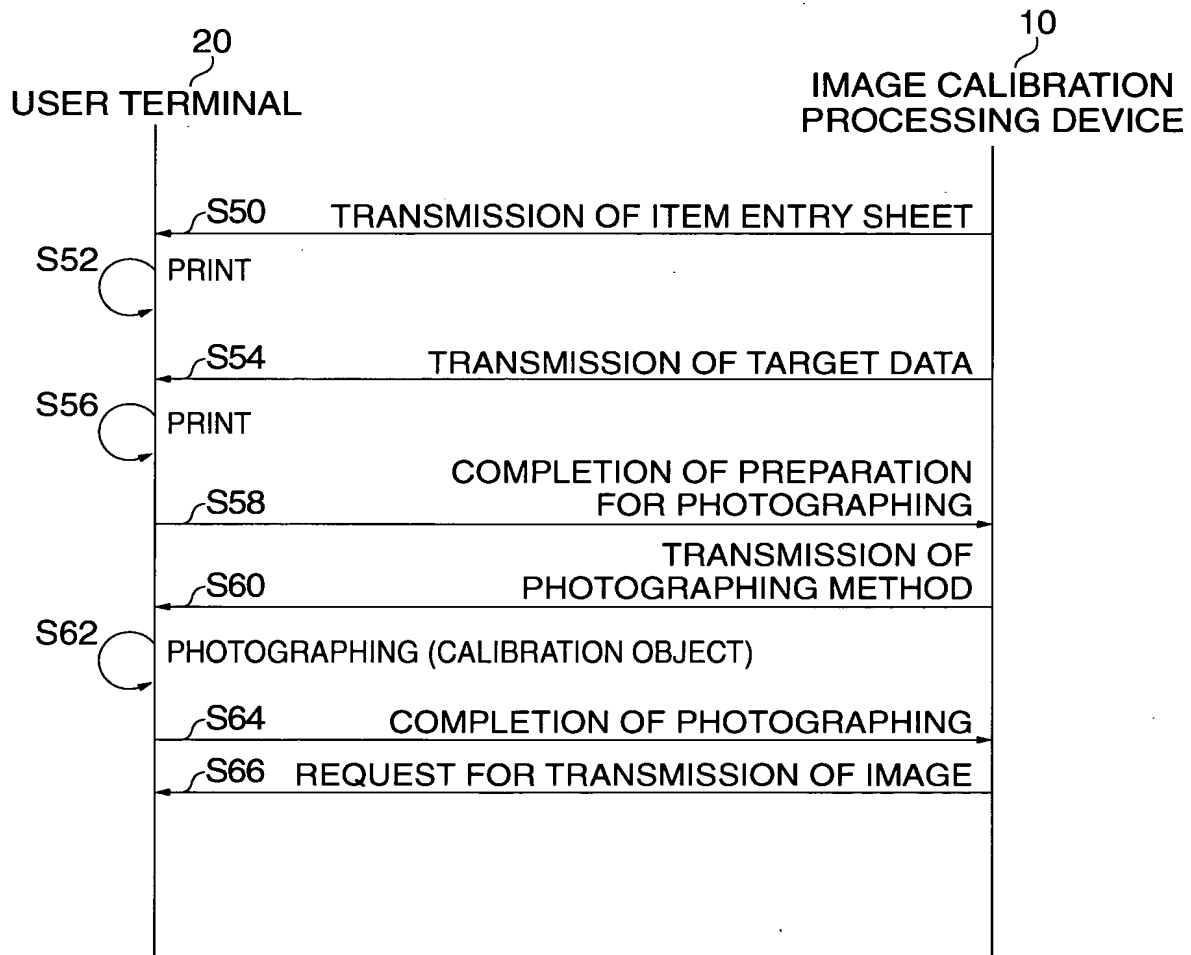


FIG. 7

DEFAULT CAMERA PARAMETERS		
<div style="border: 1px solid black; padding: 2px;"> Default camera file name (.cmr) Dimage7-tele </div>	<div style="border: 1px solid black; padding: 2px;"> CORRECTION MODEL CONFIGURATION </div>	<div style="border: 1px solid black; padding: 2px;"> OTHER CAMERA PARAMETERS CONFIRMATION </div>
<p>For entry, refer to the instruction manual for the camera of use.</p>		
<div style="border: 1px solid black; padding: 5px;"> <p>FOCAL LENGTH DEFAULT VALUE _____</p> <p>Note: Do not enter value converted to the 35 mm film scale. Enter value of the camera/lens of use.</p> <p>f = 48.5 [mm]</p> </div>		
<div style="border: 1px solid black; padding: 5px;"> <p>IMAGING DEVICE SIZES AND IMAGE RESOLUTIONS _____</p> <p>Note: In case that information on plural items below are specified in the instruction manual, entry should be made on only one item with the priority order of 1 to 3.</p> <p>1 ○ When image resolutions (size of one pixel of CCD) are specified or known: When imaging element sizes are specified Xr = 0 [um] Yr = 0 [um]</p> <p>IMAGING DEVICE SIZES ARE SPECIFIED</p> <p>2 ○ in [mm] → 0 × 0 [mm] (horizontal x vertical sizes)</p> <p>3 ● in [inch] → 2 ▾ × 3 ▾ [inch] (entry example: 1/1.7)</p> <p>IMAGE RESOLUTIONS (calculated values)</p> <p>Note: Values are automatically calculated and registered after image data is loaded.</p> <p>Xr = 3.4 [um] Yr = 3.4 [um]</p> </div>		
<div style="border: 1px solid black; padding: 5px;"> <p> Click OK button to save the default camera file.</p> </div>		

OK

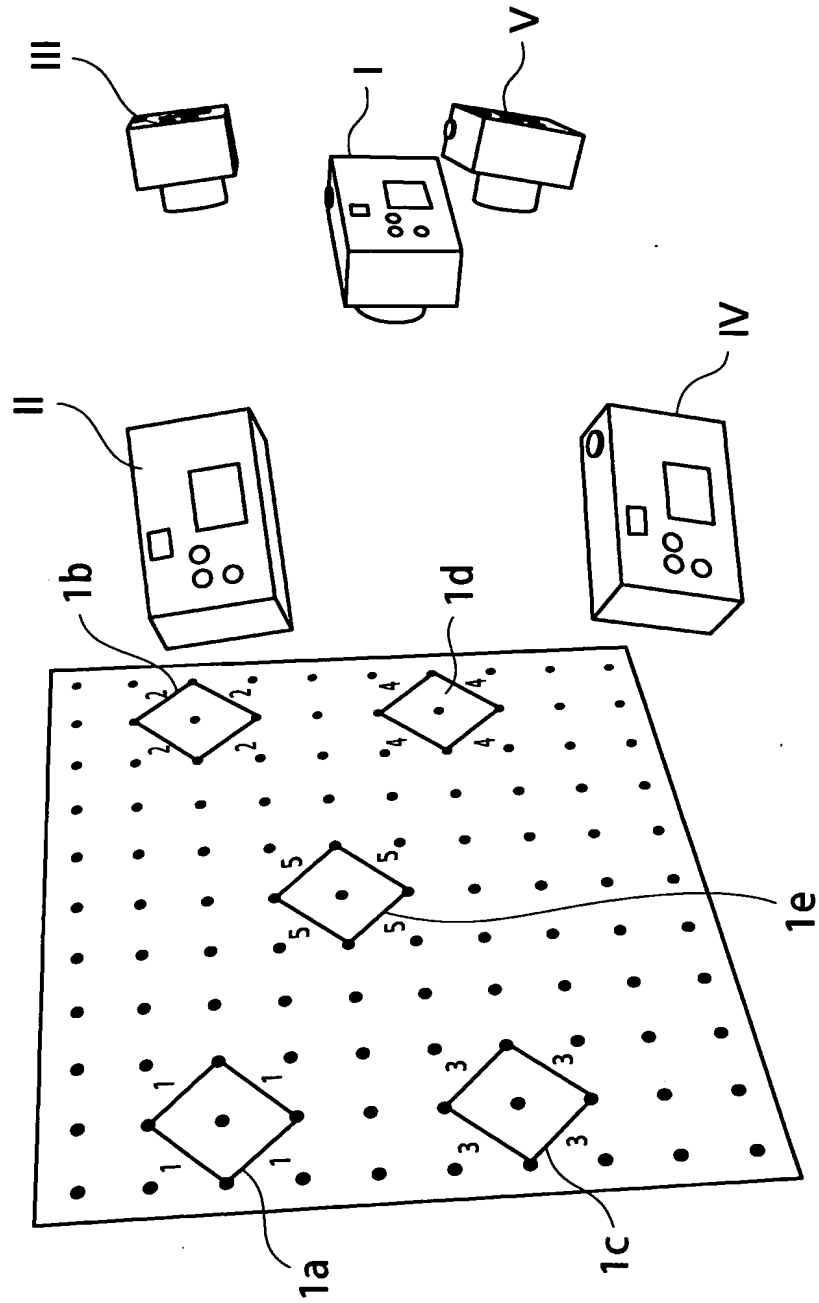
CANCEL

APPLY (A)

HELP

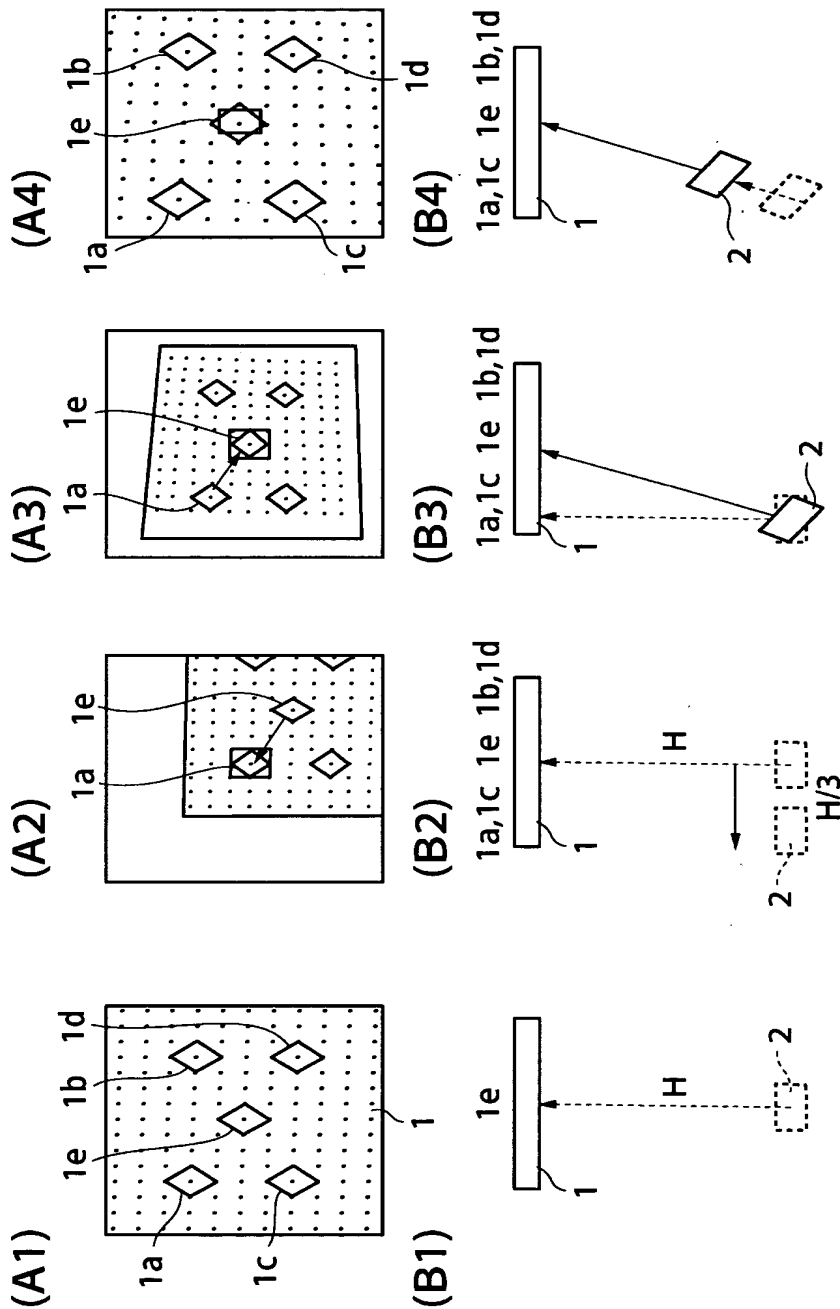
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FIG. 8



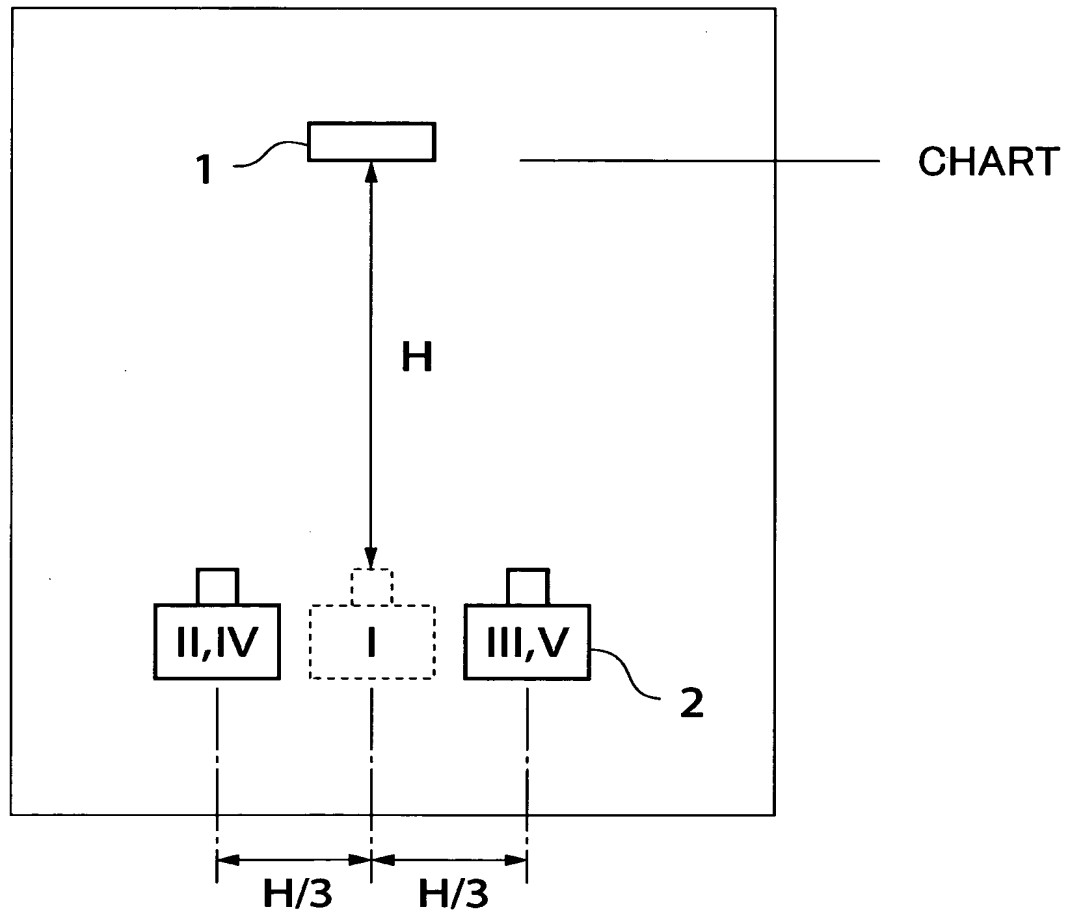
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FIG. 9



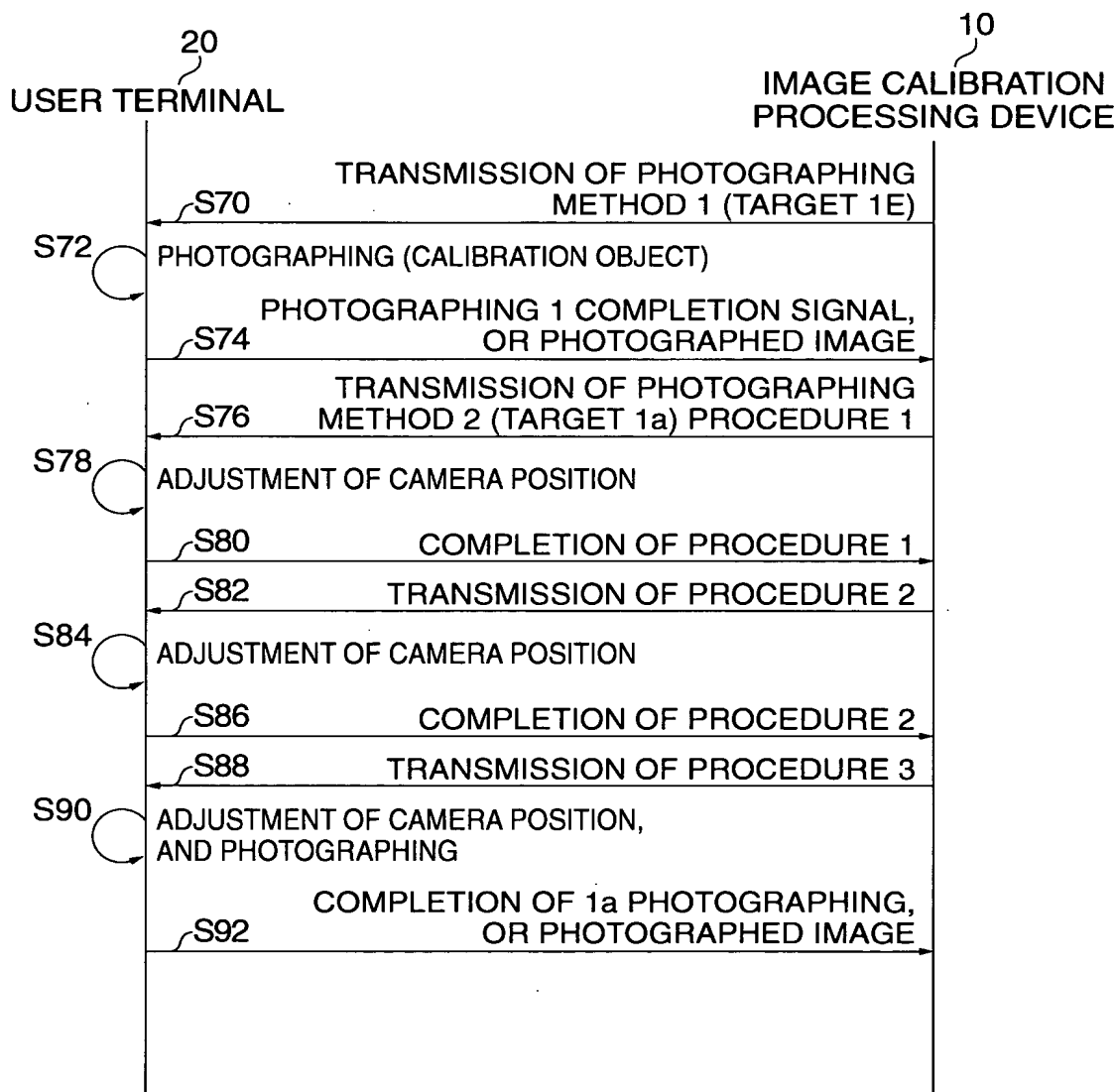
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FIG. 10



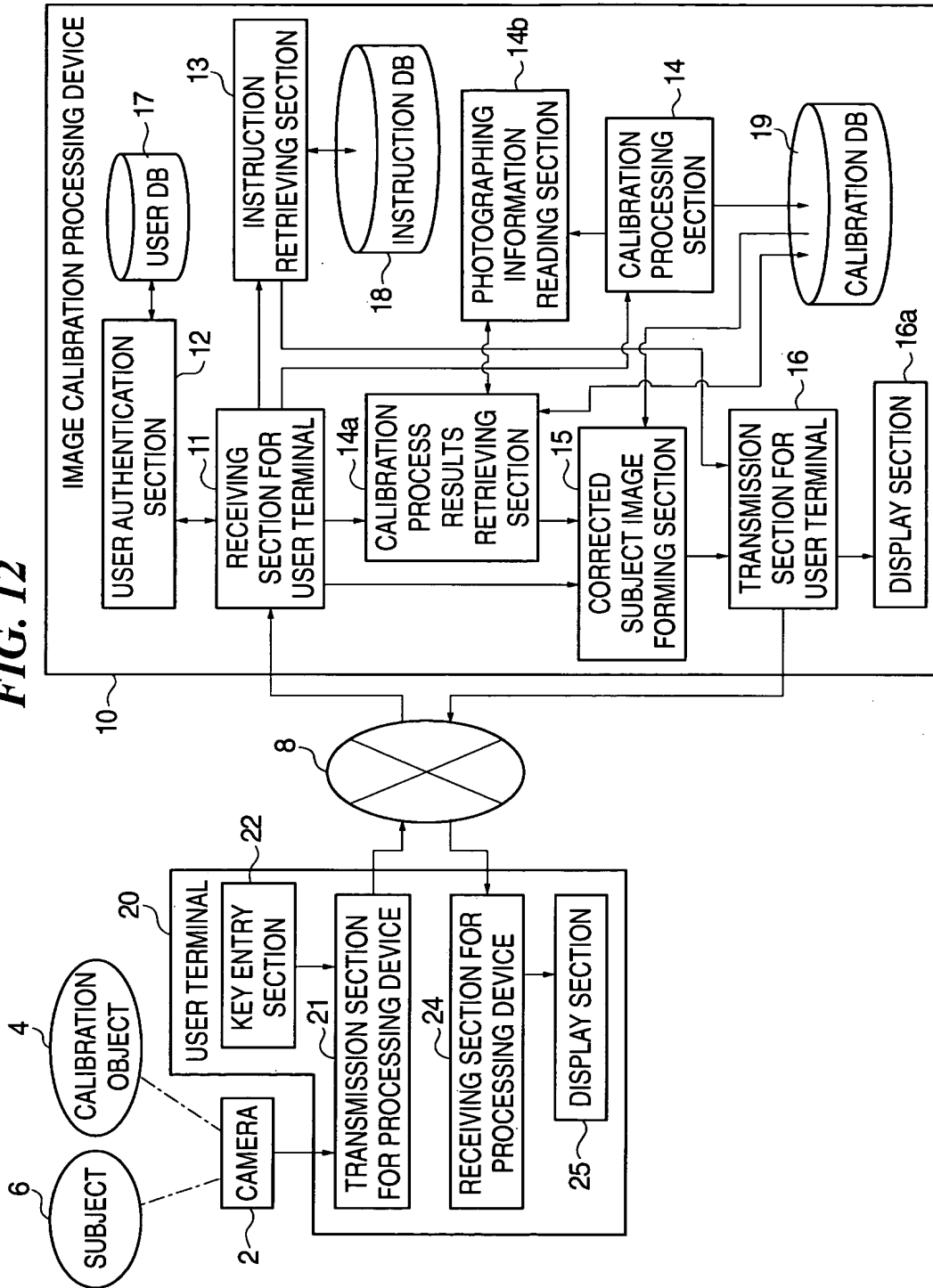
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FIG. 11

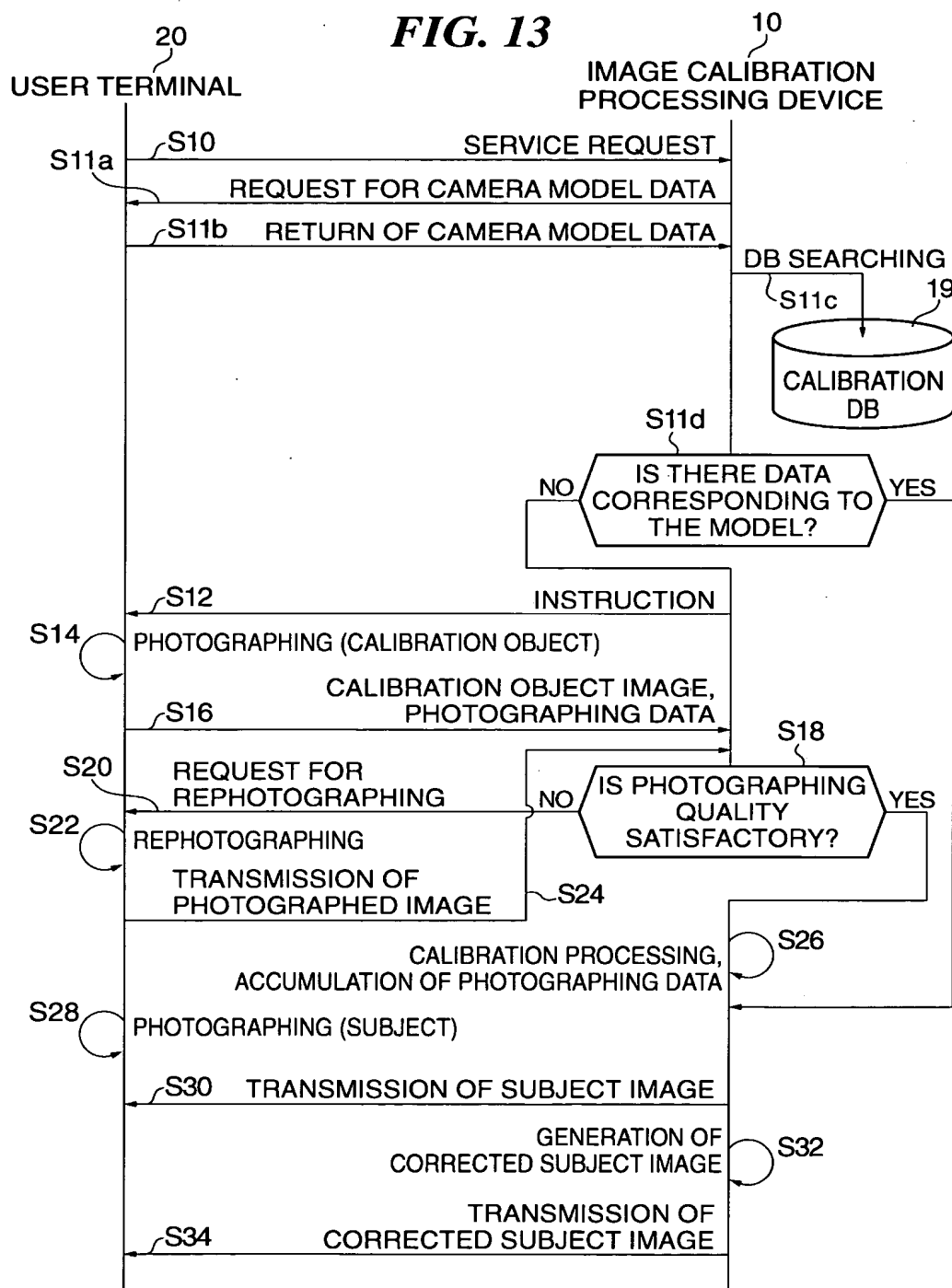


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FIG. 12

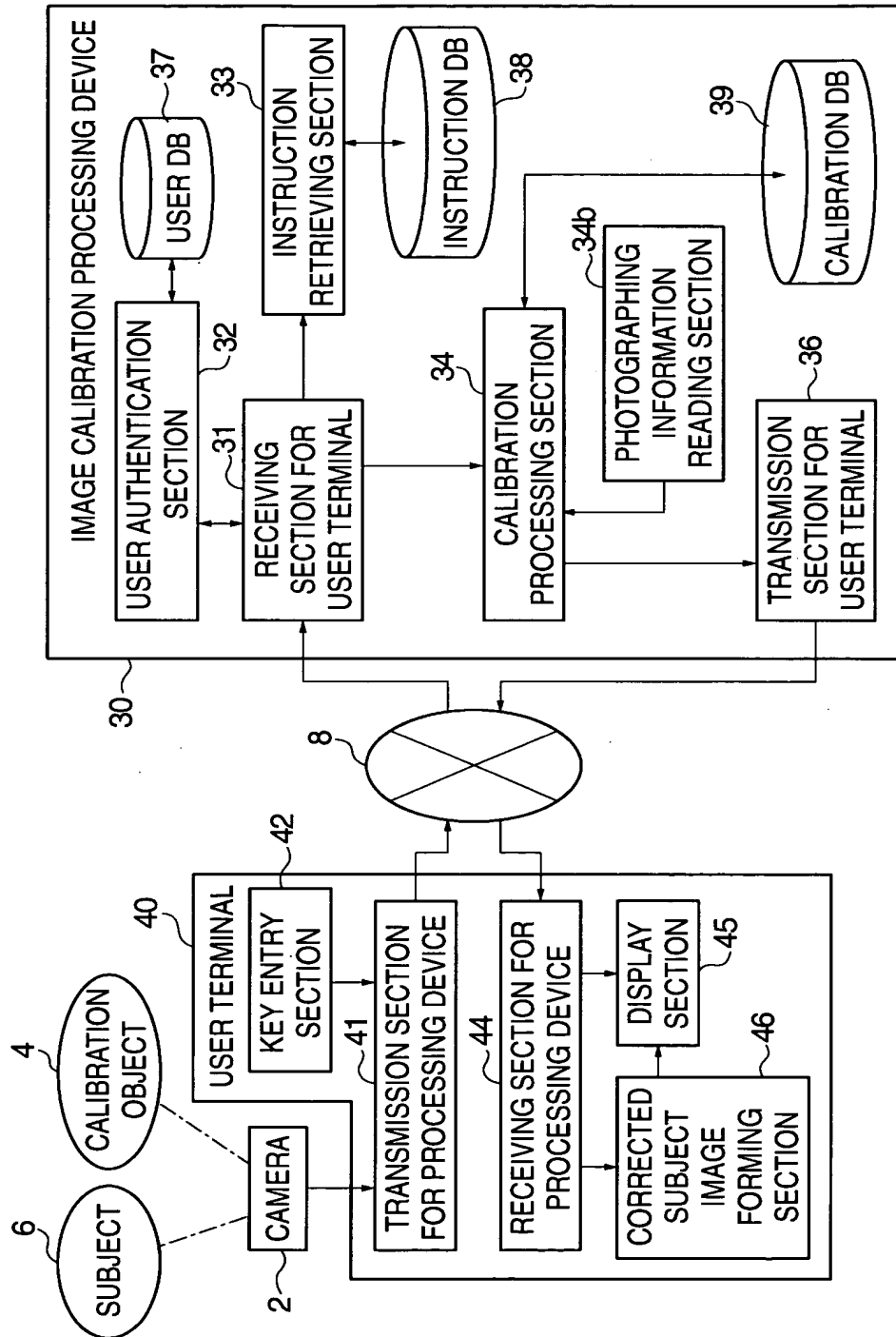


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FIG. 14



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FIG. 15

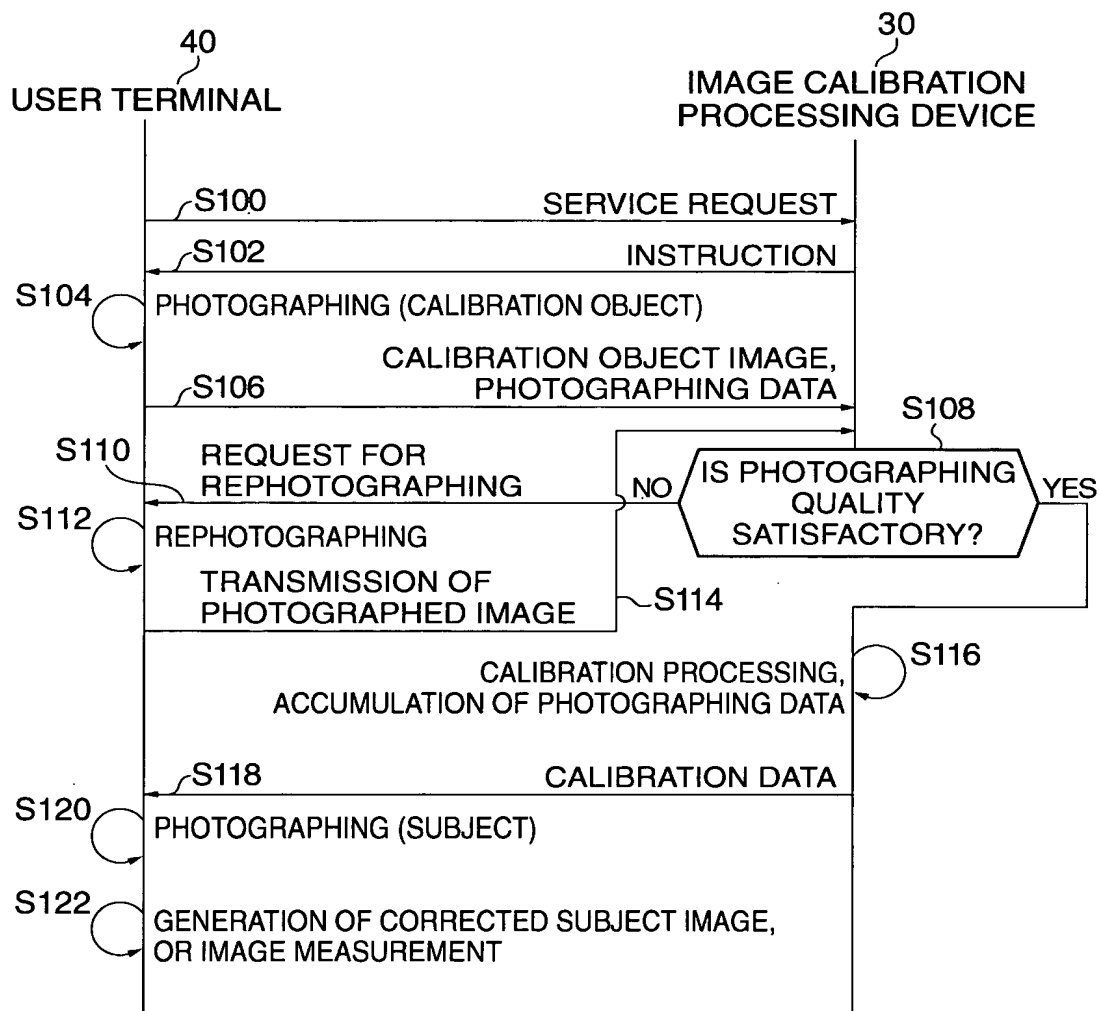
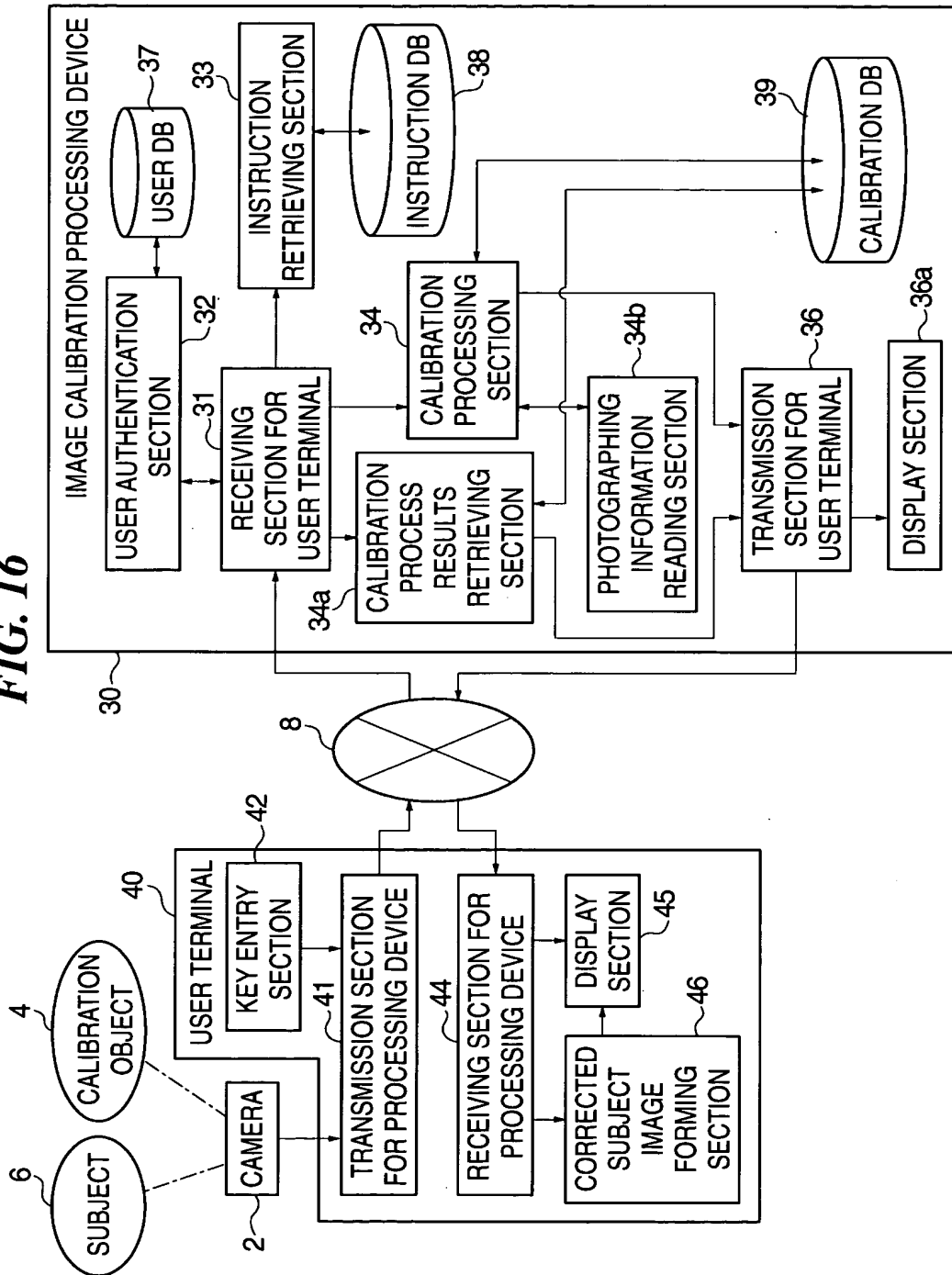


FIG. 16



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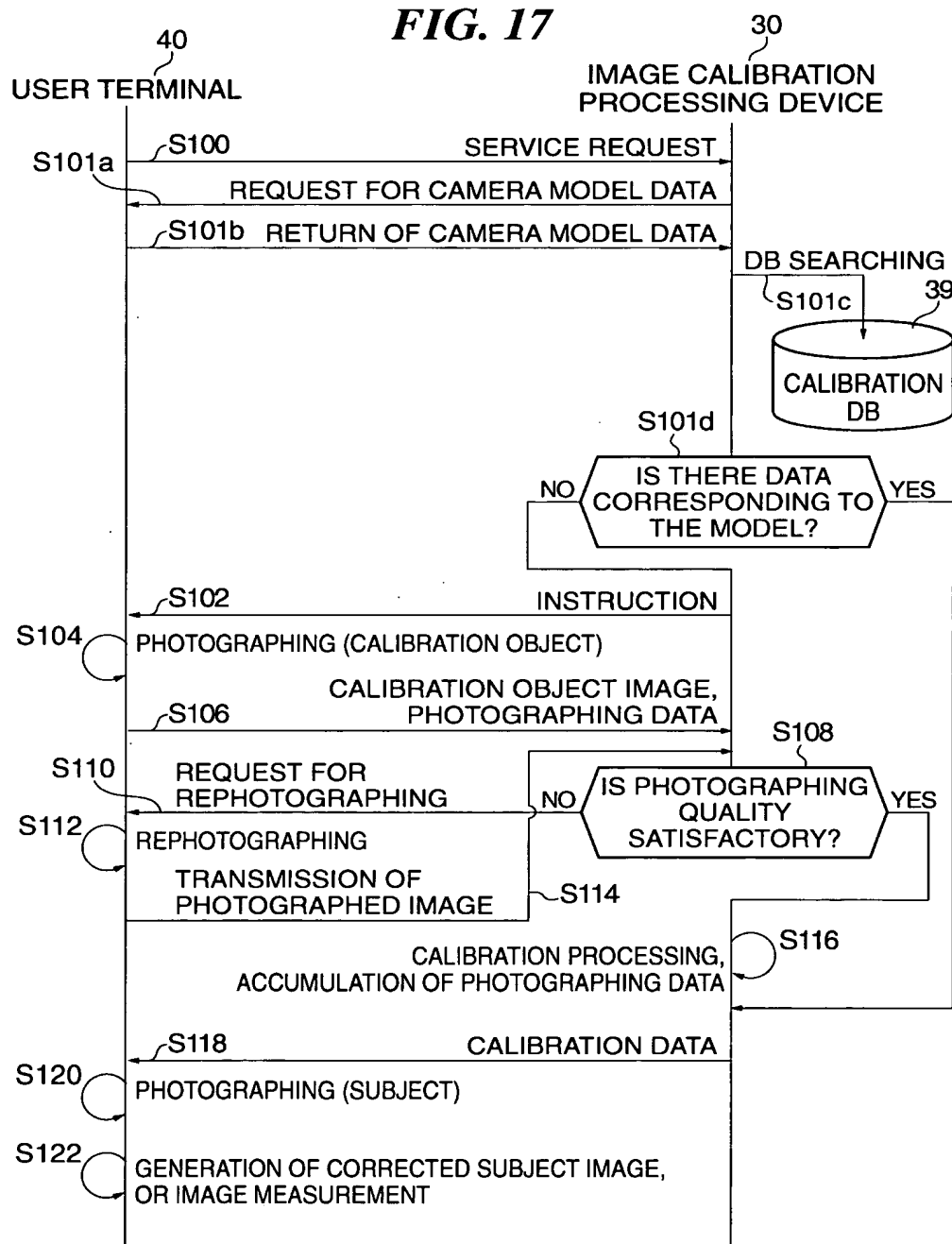
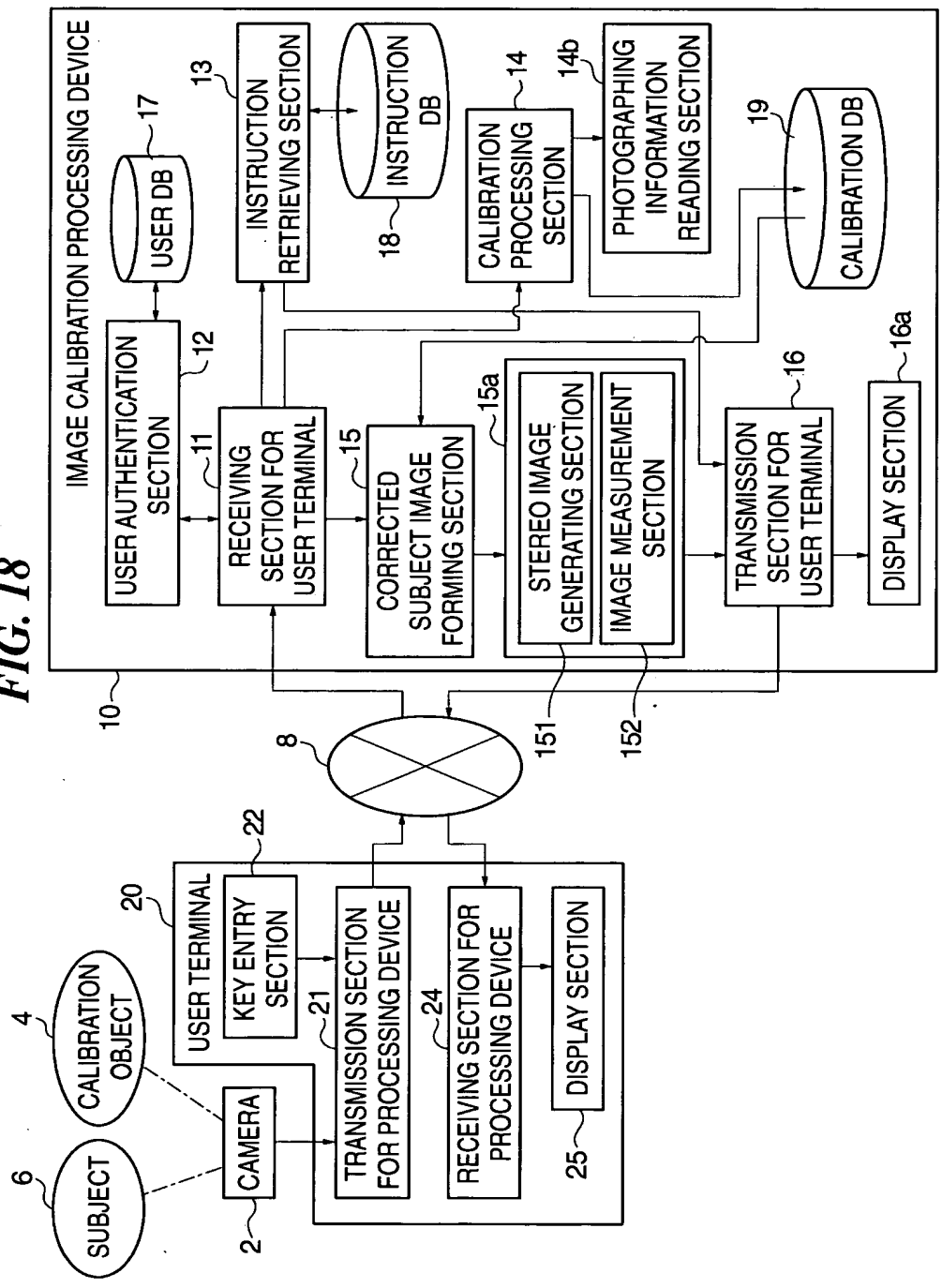
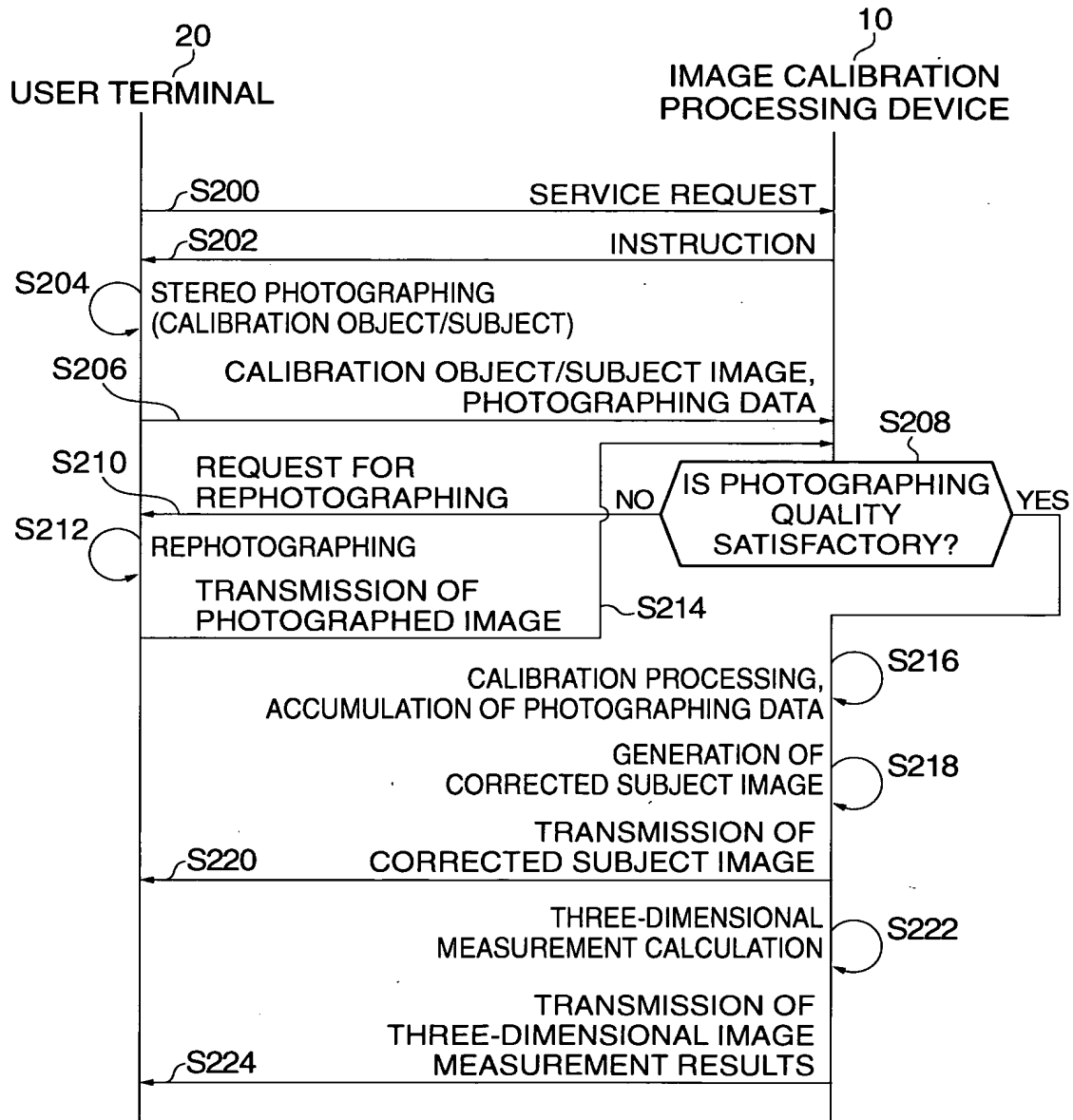


FIG. 18



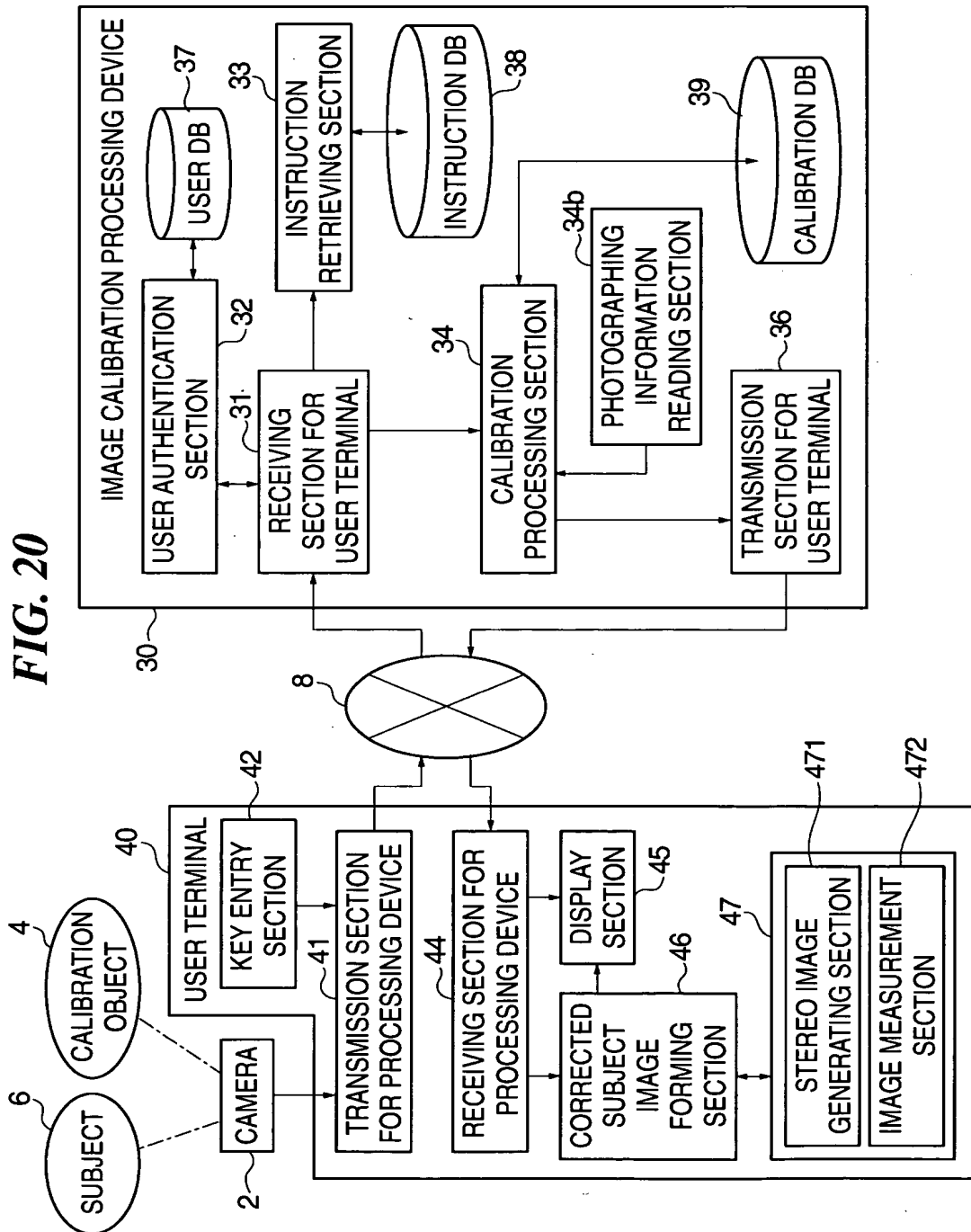
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FIG. 19



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FIG. 20



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FIG. 21

